



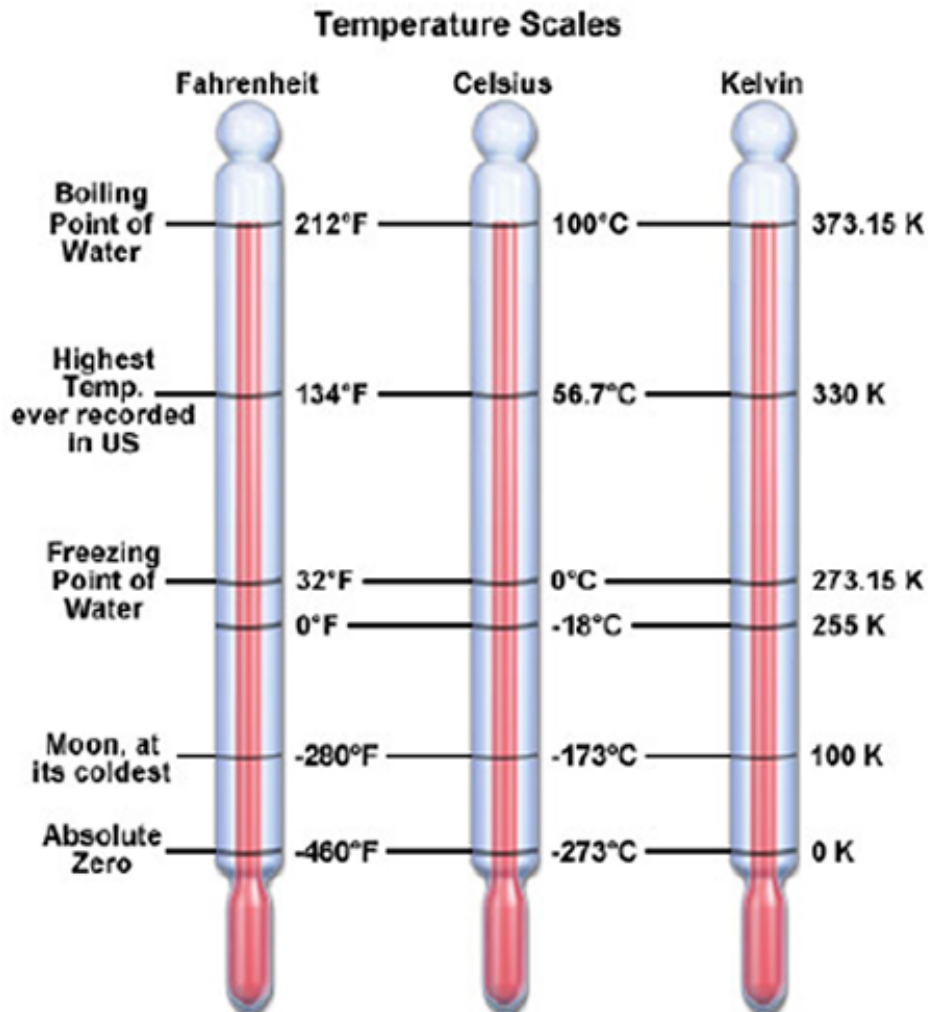
## Temperature Conversion Table

From	To Fahrenheit	To Celsius	To Kelvin
Fahrenheit (F)	F	$(F - 32) * 5/9$	$(F - 32) * 5/9 + 273.15$
Celsius (C or °)	$(C * 9/5) + 32$	C	$C + 273.15$
Kelvin (K)	$(K - 273.15) * 9/5 + 32$	$K - 273.15$	K

## Metric system handout

Name: \_\_\_\_\_

Period: \_\_\_\_\_



## TEMPERATURE SCALE PROBLEMS

This page is designed to help students practice written problems, and is meant to be printed out. Hit the print command and show all work in the spaces provided. Use the 5-step method, and be sure to round your answers correctly and include units where appropriate.

$K = C + 273$	$C = (F - 32) \times 5/9$
$C = K - 273$	$F = (C \times 9/5) + 32$

Use the above formulas above to convert the following:

1) 250 Kelvin to Celsius	2) 339 Kelvin to Celsius	3) 17 Celsius to Kelvin
4) 55 Celsius to Kelvin	5) 89.5 Fahrenheit to Celsius	6) 383 Kelvin to Fahrenheit

Name \_\_\_\_\_

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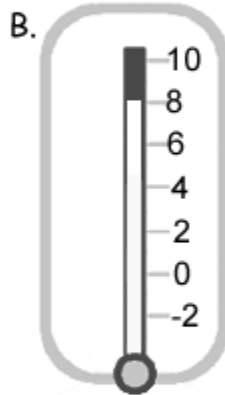
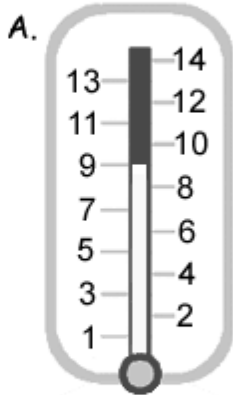
$K = C + 273$	$C = (F - 32) \times 5/9$
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Use the above formulas above to convert the following:

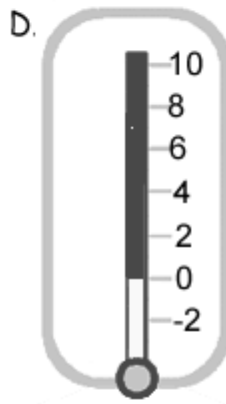
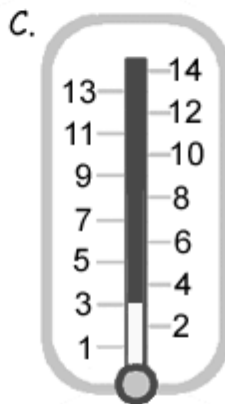
1) Convert -200 Celsius to Kelvin	2) Convert 355 Kelvin to Celsius	3) Convert 230 Celsius to Fahrenheit
4) Convert 60 Fahrenheit to Kelvin	5) Convert 100 Fahrenheit to Celsius	6) Convert 150 Celsius to Fahrenheit

1. Which thermometer, A or B, is labelled at  $2^{\circ}$  intervals?

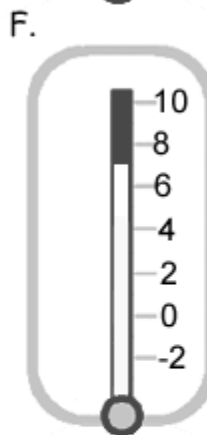
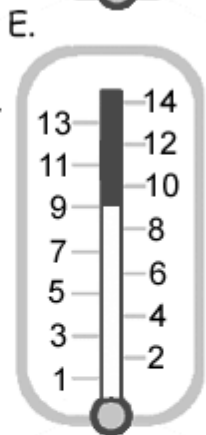
2. Which thermometer, A or B, is showing the higher temperature?



3. Which thermometer, C or D, is showing the lower temperature?



4. Diagram F is showing a higher temperature than diagram E. True or false?



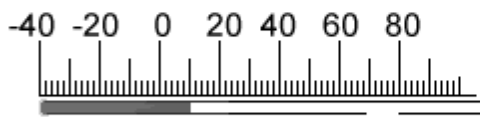
Use the conversion table below for these questions:

$^{\circ}\text{C}$	$^{\circ}\text{F}$
-10	14
-5	23
0	32
10	50
20	68
30	86
40	104

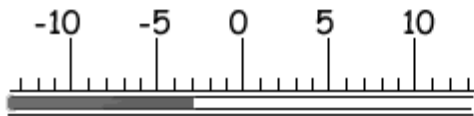
1. Which is warmer  $30^{\circ}\text{C}$  or  $30^{\circ}\text{F}$ ?
2. What is  $25^{\circ}\text{C}$  in Fahrenheit? Is it about  $5^{\circ}\text{F}$  or about  $80^{\circ}\text{F}$ ?
3. Which is colder  $10^{\circ}\text{F}$  or  $10^{\circ}\text{C}$ ?
4. Dave is looking at holiday brochures. He wants a comfortable temperature and knows that this is about  $20^{\circ}\text{C}$ . He should choose a place where the temperature is about  $70^{\circ}\text{F}$ . True or false?
5. Ivan is used to temperatures of about  $60^{\circ}\text{F}$  at home. This is about  $15^{\circ}\text{C}$ . True or false?
6. Tom says that  $30^{\circ}\text{C}$  is about  $90^{\circ}\text{F}$  and Zita says it is about  $0^{\circ}\text{F}$ . Who is correct?
7. Jed was told to put some containers in one of the cold stores at work. The labels read 'Store below  $-5^{\circ}\text{C}$ '. There are two store rooms. One is kept at  $15^{\circ}\text{F}$  and one at  $25^{\circ}\text{F}$ . Which one should he choose?
8. Sue's houseplant needs to be kept at a temperature above  $50^{\circ}\text{F}$ . Her room is at  $15^{\circ}\text{C}$ . Is this warm enough?

Read the thermometers to answer these questions.

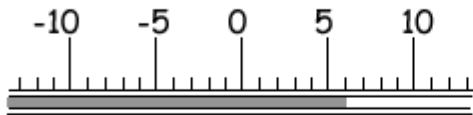
1. This reading should be given as a)  $10^{\circ}\text{C}$  b)  $5^{\circ}\text{C}$  c)  $2^{\circ}\text{C}$



2. The temperature of this thermometer is  $-7^{\circ}\text{C}$ . True or false?



3. This reading should be given as a)  $6^{\circ}\text{C}$  b)  $7^{\circ}\text{C}$



4. This reading should be given as a)  $-4^{\circ}\text{C}$  or b)  $-2^{\circ}\text{C}$ ?

